

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|                      |  |                         |
|----------------------|--|-------------------------|
| First Named Inventor | Rajinder Singh   |                         |
| Appln. No.           | 10/646,348   |                         |
| Filed                | August 22, 2003  | Group Art Unit: Unknown |
| Title                | Pyridyl Substituted Heterocycles Useful for Treating or Preventing HCV Infection | Examiner: Unknown       |

**DECLARATION FOR UTILITY PATENT APPLICATION**  
**(37 C.F.R. § 1.63)**

As a below named inventor, I hereby declare that my mailing address and citizenship are as stated below.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled:

**Pyridyl Substituted Heterocycles Useful for Treating or Preventing HCV Infection**

the specification of which:

☐ is attached hereto OR

☒ was filed on August 22, 2003 as United States Application Number 10/646,348 or PCT International Application Number \_\_\_\_\_ and amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information known to me that is material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed.

| Prior Foreign Application Number(s) | Country | Foreign Filing Date (MM/DD/YYYY) | Priority Not Claimed     | Certified Copy Attached? |                          |
|-------------------------------------|---------|----------------------------------|--------------------------|--------------------------|--------------------------|
|                                     |         |                                  |                          | Yes                      | No                       |
| None                                |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|                                     |         |                                  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

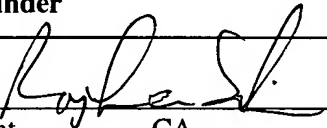
| Application Number(s) | Filing Date (MM/DD/YYYY) |
|-----------------------|--------------------------|
| 60/405,467            | August 23, 2002          |
| 60/417,837            | October 11, 2002         |
| 60/471,373            | May 15, 2003             |

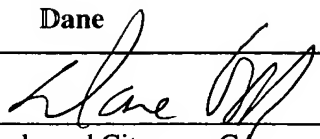
PLEASE DIRECT ALL CORRESPONDENCE TO:

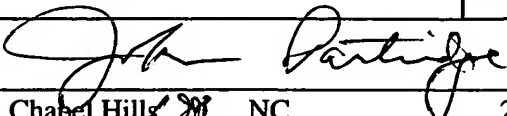
The address associated with **Customer Number: 25763**, currently:

|           |   |                       |  |
|-----------|---|-----------------------|--|
| Name      | Scott D. Rothenberger   |                       |  |
| Address   | DORSEY & WHITNEY LLP<br>Intellectual Property Department<br>Suite 1500<br>50 South Sixth Street<br>Minneapolis, MN 55402-1498 | CUSTOMER NUMBER 25763 |  |
| Telephone | 612-340-8819  |                       |  |
| Fax       | 612-340-8856  |                       |  |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

|                                |   |                             |                |
|--------------------------------|---|-----------------------------|----------------|
| <b>Sole or First Inventor:</b> |   |                             |                |
| Given Name (First and middle)  |   | Family Name or Surname      |                |
| Rajinder                       |   | Singh                       |                |
| Inventor's Signature           |  |                             | Date: 01/06/04 |
| Residence                      | Belmont CA 94002  | Citizenship: United Kindgom |                |
|                                | City State Zip  |                             |                |
| Post Office Address            | 1832 Hillman Ave., Belmont, CA 94002  |                             |                |

|                               |   |                            |               |
|-------------------------------|---|----------------------------|---------------|
| <b>Second Inventor:</b>       |   |                            |               |
| Given Name (First and middle) |   | Family Name or Surname     |               |
| Dane                          |   | Goff                       |               |
| Inventor's Signature          |  |                            | Date: 01/7/04 |
| Residence                     | Redwood City CA 94063   | Citizenship: United States |               |
|                               | City State Zip  |                            |               |
| Post Office Address           | 77 Markham Ave., Redwood City, CA 94063   |                            |               |

|                                      |   |                               |                                   |
|--------------------------------------|---|-------------------------------|-----------------------------------|
| <b>Third Inventor:</b>               |   |                               |                                   |
| <b>Given Name (First and middle)</b> |   | <b>Family Name or Surname</b> |                                   |
| <b>John</b>                          |   | <b>Partridge</b>              |                                   |
| <b>Inventor's Signature</b>          |  |                               | <b>Date:</b> 26 December 2003     |
| <b>Residence</b>                     | Chapel Hills, NC  | 27516                         | <b>Citizenship:</b> United States |
|                                      | City  | State                         | Zip                               |
| <b>Post Office Address</b>           | P.O. Box 16832, Chapel Hills, NC 27516  |                               |                                   |



Docket: 28570/US/US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|                       |  |                   |
|-----------------------|--|-------------------|
| First Named Inventor: | Rajinder Singh   |                   |
| Appln. No.:           | 10/646,348   |                   |
| Filed:                | August 22, 2003  | Examiner: Unknown |
| Title:                | Pyridyl Substituted Heterocycles Useful for Treating or Preventing HCV Infection | Group Art Unknown |
|                       |  | Unit:             |

SUBMISSION UNDER 37 C.F.R. § 3.73(b)

Director of the US Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Rigel Pharmaceuticals, Inc., a corporation, is an owner of the patent application identified above by virtue of either:

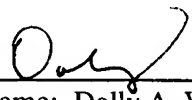
1. ☒ An assignment from the inventor(s) of the patent application identified above, a copy of which is attached.

OR

2. ☐ A chain of title from the inventor(s), of the patent application identified above, to the current assignee as shown below:
- a. From: To:  
The document was recorded in the U.S. Patent and Trademark Office at Reel  
, Frame , or a copy of which is attached.
- b. From: To:  
The document was recorded in the U.S. Patent and Trademark Office at Reel  
, Frame , or a copy of which is attached.

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of **Rigel Pharmaceuticals, Inc.**

Dated: 1-7-04

Signature: 

Name: Dolly A. Vance  
Title: General Counsel  
VP Intellectual Property

# COPY

## ASSIGNMENT

[Entity]

Attorney Docket No.:

28570/US/US

Page 1 of 3

First Named Inventor: Rajinder Singh

Title: Pyridyl Substituted Heterocycles Useful for Treating or Preventing HCV Infection

WHEREAS, We, Rajinder Singh, Belmont, CA 94002; Dane Goff, Redwood City, CA 94063; and John Partridge, Chapel Hills, NC 27516, have invented certain new and useful improvements as described in an application entitled **Pyridyl Substituted Heterocycles Useful for Treating or Preventing HCV Infection** for Letters Patent of the United States, the application being identified in the United States Patent and Trademark Office by Application No. 10/646,348, filed August 22, 2003; and

WHEREAS, Rigel Pharmaceuticals, a corporation, having offices at 1180 Veterans Boulevard, South San Francisco, CA 94080, ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the application, and any and all Letters Patent or similar legal protection, foreign or domestic, to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, we transfer to Assignee, its successors and assigns, our entire right, title, and interest in and to the invention, the above-identified patent application, corresponding domestic applications (including divisionals, continuations, and continuations-in-part), corresponding foreign applications, all Letters Patent or similar legal protection issuing thereon, and all rights and benefits under any applicable treaty or convention; and we authorize the Commissioner of Patents and Trademarks of the United States or foreign equivalent thereof to issue the Letters Patent or similar legal protection to the Assignee.

We represent to the Assignee, its successors and assigns, that we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. We, our executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries.

  
Rajinder Singh

### CERTIFICATE OF ACKNOWLEDGMENT

STATE OF California )  
COUNTY OF San Mateo ) SS.

Subscribed and sworn to before me, a Notary Public,  
this 6<sup>th</sup> day of January, 2003.

  
Notary Public



(SEAL)

**COPY**  
**ASSIGNMENT**  
[Entity]

Attorney Docket No.:  
28570/US/US

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First Named Inventor: Rajinder Singh

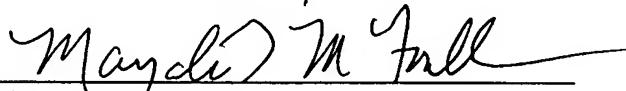
Title: Pyridyl Substituted Heterocycles Useful for  
Treating or Preventing HCV Infection

  
Dane Goff

**CERTIFICATE OF ACKNOWLEDGMENT**

STATE OF California  
COUNTY OF San Mateo: SS.

Subscribed and sworn to before me, a Notary Public,  
this 7<sup>th</sup> day of January, 2004.

  
Notary Public

(SEAL)



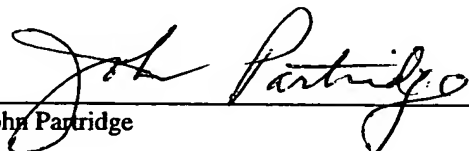
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**ASSIGNMENT**  
[Entity]

Attorney Docket No.:  
28570/US/US

Page 3 of 3

First Named Inventor: Rajinder Singh

Title: Pyridyl Substituted Heterocycles Useful for  
Treating or Preventing HCV Infection

  
John Partridge

**CERTIFICATE OF ACKNOWLEDGMENT**

STATE OF North Carolina )  
COUNTY OF Durham ) : SS.

Subscribed and sworn to before me, a Notary Public,  
this 26<sup>th</sup> day of December, 2003.

  
Notary Public

(SEAL)

My commission expires: September 17<sup>th</sup>, 2007.